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Reply to Office Action of September 9, 2004

### **Amendments to the Claims**

Claim 1 (currently amended): An electrical contact for electrically connecting two electrical components, the contact comprising:

a retention portion; and

an extending portion comprising a first spring arm extending slantingly down from the retention portion and a second spring arm extending slantingly up from the first ~~extending portion~~ spring arm, the first spring arm defining a first mating portion at a bottom section thereof, the second spring arm defining a second mating portion at a topmost section thereof and an engaging portion at a free end thereof;

wherein when the first and second mating portions of the contact engage with the electrical components, the engaging portion engages with the retention portion in order to form two electrical paths between the first and second mating portions.

Claim 2 (original): The electrical contact of claim 1, wherein the retention portion comprises two legs, and a connecting portion interconnecting the legs.

Claim 3 (original): The electrical contact of claim 2, wherein each of the legs forms a plurality of barbs on an outer edge thereof.

Claim 4 (original): The electrical contact of claim 3, wherein the first and second spring arms form a substantially "U"-shaped configuration oriented slantwise relative to the retention

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portion.

Claim 5 (currently amended): An electrical connector for electrically connecting two electrical components, the connector comprising:

a substantially rectangular housing defining a plurality of terminal-passages; and

a plurality of terminals each received in a corresponding terminal-passage, the terminals each comprising a retention portion, and an extending portion extending from the retention portion; the extending portion defining first and second mating portions respectively disposed outside said corresponding contact-passage for engaging with the electrical components;

wherein the extending portion defines an engaging portion for mating with the retention portion in order to form two electrical paths between the first and second mating portions when the contact electrically mates with the electrical components;

wherein when the first and second mating portions are engaged with the electrical components, respectively, one of the first and second mating portions stands away from the retention portion and the other closes the retention portion.

Claim 6 (original): The electrical connector of claim 5, wherein the housing defines four side walls which cooperatively define an opening therebetween.

Claim 7 (original): The electrical connector of claim 6, wherein one of

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the side walls defines a first spring cantilever extending into the opening.

Claim 8 (original): The electrical connector of claim 7, wherein an adjacent of the side walls defines two spaced second spring cantilevers extending into the opening.

Claim 9 (original): The electrical connector of claim 5, wherein the engaging portion is disposed at a free end of the extending portion.

Claim 10 (original): The electrical connector of claim 9, wherein the retention portion comprises two legs and a connecting portion interconnecting the legs, each of the legs forming a plurality of barbs on an outer edge thereof.

Claim 11 (original): The electrical connector of claim 10, wherein the extending portion comprises first and second spring arms, and has a "U"-shaped configuration oriented slantwise relative to the retention portion.

Claim 12 (original): The electrical connector of claim 11, wherein the first spring arm extends slantingly down from the connecting portion, the first mating portion being disposed at a bottom section of the first spring arm.

Claim 13 (original): The electrical connector of claim 12, wherein the second spring arm extends slantingly upwardly from the first mating portion, the second mating portion being disposed at a top section of the second spring arm.

Claim 14 (original): An electrical connector assembly comprising:

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a printed circuit board;

an electrical connector mounted on the printed circuit board;

an electronic package mounted unto the electrical connector,

said connector defining an insulative housing with a plurality of terminal passages extending therethrough in a vertical direction;

a plurality of terminals respectively disposed in the corresponding terminal passages, each of said terminals defining a vertical retention portion, an extending portion split from an upper portion of the retention portion and defining a U-like shape, said extending portion including first and second mating portions respectively exposed on bottom and top faces of the housing and mechanically and electrically engaged with the corresponding printed circuit board and the electronic package; wherein

a distal end of the extending portion of each of said terminals defines an engaging portion mechanically and electrically engaged with the retention portion when said terminal is in a compressed condition.

Claim 15 (original): The assembly of claim 14, wherein said retention portion essentially is of a U-shaped configuration.

Claim 16 (new): The electrical connector of claim 5, wherein the extending portion comprises upper and lower arms, when the first and second mating portions are engaged with the electrical components, respectively, said upper and lower arms

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substantially construct said two electrical paths, respectively.